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1 An integrated access control for securely querying and updating XML data

Maggie Duong, Yanchun Zhang

January 2008   ADC '08: Proceedings of the nineteenth conference on Australasian database - Volume 75,   Volume 75

Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(807.74 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 6,   Citation Count: 0

Many existing access controls use node filtering or querying rewriting techniques. These techniques require rather time-consuming processes such as parsing, labeling, pruning and/or rewriting queries into safe ones each time a user requests a query or ...

Keywords: XML query, XML update, access control, labeling scheme

2 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June   ACM Computing Surveys (CSUR), Volume 38 Issue 1
2006
Publisher: ACM

Full text available: pdf(1.70 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 177, Downloads (12 Months): 1610, Citation Count: 3

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November   CASCON '97: Proceedings of the 1997 conference of the Centre for
1997   Advanced Studies on Collaborative research
Publisher: IBM Press

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 761, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

4 An authorization model for temporal and derived data: securing information portals

Vijayalakshmi Atluri, Avigdor Gal
February   ACM Transactions on Information and System Security (TISSEC),
2002   Volume 5 Issue 1
Publisher: ACM

Full text available: pdf(406.85 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 112, Citation Count: 8

The term *information portals* refers to Web sites that serve as main providers of focused information, gathered from distributed data sources. Gathering and disseminating information through information portals introduce new security challenges. ...

Keywords: Access control, authorization administration, derived data, temporal data

5 Communications of the ACM: Volume 51 Issue 2

February   issue   Volume 51 Issue 2
2008
Publisher: ACM

Full text available: pdf(3.89 MB) digital edition

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 549, Downloads (12 Months): 1641, Citation Count: 0

6 Purpose based access control for privacy protection in relational database systems

Ji-Won Byun, Ninghui Li
July   The VLDB Journal — The International Journal on Very Large Data
2008   Bases, Volume 17 Issue 4
Publisher: Springer-Verlag New York, Inc.
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

In this article, we present a comprehensive approach for privacy preserving access control based on the notion of purpose. In our model, purpose information associated with a given data element specifies the intended use of the data element. A key feature ...

Keywords: Access control, Privacy, Private data management, Purpose

7 Securing distributed storage: challenges, techniques, and systems

Vishal Kher, Yongdae Kim
November   StorageSS '05: Proceedings of the 2005 ACM workshop on Storage
2005   security and survivability
Publisher: ACM

Full text available: pdf(294.61 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 79, Downloads (12 Months): 383, Citation Count: 1

The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

8   Flexible support for multiple access control policies

Sushil Jajodia, Pierangela Samarati, Maria Luisa Sapino, V. S. Subrahmanian

June   ACM Transactions on Database Systems (TODS),   Volume 26 Issue 2
2001

Publisher: ACM

Full text available: pdf(460.33 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 36,   Downloads (12 Months): 251,   Citation Count: 54

Although several access control policies can be devised for controlling access to information, all existing authorization models, and the corresponding enforcement mechanisms, are based on a specific policy (usually the closed policy). As a consequence, ...

Keywords: access control policy, authorization, logic programming

9   Designing a distributed access control processor for network services on the Web

Reiner Kraft

November   XMLSEC '02: Proceedings of the 2002 ACM workshop on XML security
2002

Publisher: ACM

Full text available: pdf(301.14 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 227,   Citation Count: 3

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many,and might represent a step towards the semantic Web. However, security is ...

Keywords: Web services, XML, access control, security

10 Separating access control policy, enforcement, and functionality in extensible systems

Robert Grimm, Brian N. Bershad
February   ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 1
2001
Publisher: ACM

Full text available: pdf(164.03 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 261, Citation Count: 3

Extensible systems, such as Java or the SPIN extensible operating system, allow for units of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to ...

Keywords: Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain, protection domain transfer, security policy

11 Model driven security: From UML models to access control infrastructures

David Basin, Jürgen Doser, Torsten Lodderstedt
January   ACM Transactions on Software Engineering and Methodology
2006   (TOSEM), Volume 15 Issue 1
Publisher: ACM

Full text available: pdf(968.83 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 85, Downloads (12 Months): 536, Citation Count: 6

We present a new approach to building secure systems. In our approach, which we call Model Driven Security, designers specify system models along with their security requirements and use tools to automatically generate system architectures from the models, ...

Keywords: Model Driven Architecture, Object Constraint Language, Role-Based Access Control, Unified Modeling Language, metamodeling, security engineering

12 Query processing in the aqualogic data services platform

Vinayak Borkar, Michael Carey, Dmitry Lychagin, Till Westmann, Daniel Engovatov, Nicola Onose
September   VLDB '06: Proceedings of the 32nd international conference on Very
2006   large data bases
Publisher: VLDB Endowment

Full text available: pdf(571.23 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 92, Citation Count: 0

BEA recently introduced a new middleware product called the Aqua-Logic Data Services Platform (ALDSP). The purpose of ALDSP is to make it easy to design, develop, deploy, and maintain a data services layer in the world of service-oriented architecture ...

13 A fine-grained access control system for XML documents

Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati

May 2002   ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 2

Publisher: ACM

Full text available: pdf(330.60 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 49,   Downloads (12 Months): 317,   Citation Count: 56

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification and enforcement

14 User privacy-preserving identity data dependencies

Samir Saklikar, Subir Saha

November 2006   DIM '06: Proceedings of the second ACM workshop on Digital identity management

Publisher: ACM

Full text available: pdf(530.91 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 162,   Citation Count: 0

Identity Federation technologies have enabled users to leverage their relationships with an Identity Provider (IdP) into a Service Provider's (SP) domain. They allow user-initiated and IdP-controlled sharing of authentication information, attributes ...

Keywords: SAML, digital identity, identity federation, liberty alliance, policy, privacy

15 Secure virtual enclaves: Supporting coalition use of distributed application technologies

May 2001   ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue 2

Publisher: ACM

Full text available: pdf(462.10 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 20,   Downloads (12 Months): 79,   Citation Count: 2

The Secure Virtual Enclaves (SVE) collaboration infrastructure allows multiple organizations to share their distributed application objects, while respecting organizational autonomy over local resources. The infrastructure is transparent to applications, ...

Keywords: Access control, coalition, collaborative system, group communication, middleware, security policy

16 Secure and selective dissemination of XML documents

Elisa Bertino, Elena Ferrari

August 2002   ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 3

Publisher: ACM

Full text available: pdf(678.34 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 37,   Downloads (12 Months): 186,   Citation Count: 30

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared ...

Keywords: Access control, XML, secure distribution

17 Purpose based access control of complex data for privacy protection

Ji-Won Byun, Elisa Bertino, Ninghui Li

June 2005   SACMAT '05: Proceedings of the tenth ACM symposium on Access control models and technologies

Publisher: ACM

Full text available: pdf(223.59 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 46,   Downloads (12 Months): 187,   Citation Count: 6

As privacy becomes a major concern for both consumers and enterprises, many research efforts have been devoted to the development of privacy protecting technology. We recently proposed a privacy preserving access control model for relational databases, where ...

Keywords: access control, management, privacy, private data, purpose, role attributes

18 Putting computing in context: An infrastructure to support extensible context-enhanced collaborative applications

W. Keith Edwards
December   ACM Transactions on Computer-Human Interaction (TOCHI),
2005   Volume 12 Issue 4
Publisher: ACM

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 185,   Citation Count: 1

Context-aware computing exposes a unique tension in how information about human context is modeled and used. On the one hand, approaches that use loosely structured information have been shown to be useful in situations where humans are the final consumers ...

Keywords: Collaboration, context-aware computing, coordination, data representations

19 Flexible control of downloaded executable content

Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam
May   ACM Transactions on Information and System Security (TISSEC),
1999   Volume 2 Issue 2
Publisher: ACM

Full text available: pdf(297.79 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 80,   Citation Count: 8

We present a security architecture that enables system and application access control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote ...

Keywords: access control models, authentication, autorization machanisms, collaborative systems, role-based access control

20 Controlling access in multiuser interfaces

Prasun Dewan, Honghai Shen
March   ACM Transactions on Computer-Human Interaction (TOCHI),   Volume
1998   5 Issue 1
Publisher: ACM

Full text available: pdf(182.07   Additional Information: full citation, abstract, references, cited by,
KB)   index terms, review

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 92,   Citation Count: 11

Traditionally, access control has been studied in the areas of operating systems and
database management systems. With the advent of multiuser interfaces, there is a
need to provide access control in the user interface. We have developed a general
framework ...

Keywords: access control, collaboration, computer-supported cooperative work,
groupware, privacy, security, structure editors, user interface management systems

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